| Ina | lex of | Claims |  |
|-----|--------|--------|--|
|     |        |        |  |

| Application No.  | Applicant(s)   |
|------------------|----------------|
| 09/717,019       | UKIGAWA ET AL. |
| Examiner         | Art Unit       |
| J. Bret Dennison | 2143           |

| √  | Rejected |
|----|----------|
| 11 | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla       | ım  | Date     |          |  |  |  |               | _        |  |                 |
|-----------|---|----------|----------|--|--|--|---------------|----------|--|-----------------|
| Final     | ~   | 7/6/07   |          |  |  |  |               |          |  |                 |
|           | 1   | -        |          |  |  |  |               |          |  |                 |
|           | 2   |          |          |  |  |  |               |          |  | П               |
|           | 3   | -        |          |  |  |  |               | _        |  |                 |
| -         | 4   | _        |          | ┪  | -  |  |               |          |  | $\Box$          |
|           | 5   |          | _        | _  | _  | _  | _             | _        |  | Н               |
|           | 6   | _        |          |  |  |  |               |          |  | Н               |
|           | 7   | _        |          | $\vdash$   | ╌  |  |               |          | $\vdash$   | H               |
|           | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9 |          |          | ┪  |  | _  | _             |          |  | $\dashv$        |
| <b></b>   | 9   | -        |          | $\vdash$   | <u> </u>   |  | $\overline{}$ | _        |  |                 |
|           | 10  | _        | _        | -  | $\vdash$   |  |               |          | -  | $\dashv$        |
|           | 11  | 1        | -        | <u> </u>   | -  |  |               | _        | _  | $\vdash$        |
| ] .       | 12  | Ė        | $\vdash$ | $\vdash$   | $\vdash$   | Т  | $\vdash$      |          | Н  | Н               |
| Ė         | 13  | Ι_       | -        | <del>                                     </del> |  | $\vdash$   | Н             | $\vdash$ |  |                 |
|           | 14  | Ι_       | $\vdash$ | $\vdash$   | $\vdash$   | Н  | $\vdash$      |          | -  | $\vdash$        |
| $\vdash$  | 15  | _        | $\vdash$ | <del>                                     </del> | <del>                                     </del> |  |               |          | <del>                                     </del> | $\vdash \vdash$ |
| <b>-</b>  | 16  | -        | -        | <u> </u>   | <del> </del>                                     |  | $\vdash$      | _        | $\vdash$   | Н               |
| $\vdash$  | 11<br>12<br>13<br>14<br>15<br>16          | <u> </u> | -        | <del>                                     </del> |  | -  | -             |          | $\vdash$   | $\vdash \vdash$ |
| <b></b> - | 18  | _        | _        | ┢  | $\vdash$   | _  |               | _        | <del> </del>                                     | $\dashv$        |
| $\vdash$  | 18<br>19                                  |          | _        | <del>                                     </del> |  |  |               |          | $\vdash$   | $\dashv$        |
|           | 20  | -        | _        | -  | $\vdash$   | -  |               | -        | $\vdash$   | $\dashv$        |
|           | 21  |          | -        | <del> </del>                                     | -  | -  |               |          | -  | $\dashv$        |
|           | 22  |          |          | $\vdash$   | ┢  |  |               |          |  | H               |
| -         | 23  | -        |          | -  | -  | -  | _             | -        | -  | $\dashv$        |
|           | 24  |          | -        | -  | ┢  |  |               |          |  | $\vdash$        |
|           | 20<br>21<br>22<br>23<br>24<br>25          |          | H        | ┢┈   | <del> </del>                                     | -  | _             | _        | $\vdash$   | $\dashv$        |
|           | 26  |          | $\vdash$ | $\vdash$   | $\vdash$   | <del>                                     </del> | _             | _        | $\vdash$   | $\exists$       |
|           | 26<br>27<br>28                            |          |          | $\vdash$   | $\vdash$   | _  | _             |          |  | H               |
|           | 28  | -        |          | _  | -  |  |               |          |  |                 |
|           | 29  | 1        | $\vdash$ | _  | $\vdash$   |  |               | _        | _  | $\neg$          |
|           | 29<br>30<br>31                            |          | _        |  |  | _  |               | _        | Т  | $\dashv$        |
|           | 31  |          | Н        | ┪  | _  |  |               |          |  | $\dashv$        |
|           | 32  |          | <u> </u> | <del>                                     </del> | <del>                                     </del> | -  |               | _        | $\vdash$   | $\vdash$        |
|           | 32<br>33                                  |          |          | T  |  |  |               | <u> </u> |  | H               |
|           | 34  | T        | _        | T  |  | Г  | П             |          | Т  | П               |
|           | 34<br>35                                  |          |          |  |  | П  | П             | $\Box$   | T  | $\vdash$        |
|           | 36  |          | Г        | <del>                                     </del> |  |  |               |          |  | П               |
|           | 37  |          |          |  |  |  | $\Box$        | $\Box$   |  | П               |
|           | 37<br>38                                  |          | l        | Г  |  |  |               |          |  | П               |
|           | 39  |          | Г        |  |  |  |               |          |  | П               |
|           | 40  |          |          |  |  |  |               |          |  | П               |
|           | 41  |          |          |  |  |  |               |          |  | П               |
|           | 42  |          |          |  |  |  |               |          |  | П               |
|           | 43  |          |          |  |  |  |               |          |  |                 |
|           | 44  |          |          |  |  |  |               |          |  |                 |
|           | 45  |          |          | Γ  |  |  |               |          |  | $\Box$          |
|           | 46  |          |          | Ī  |  |  |               |          |  | П               |
|           | 47  |          |          |  |  |  |               |          |  |                 |
|           | 48  |          |          |  |  |  |               |          |  |                 |
|           | 49  |          |          |  |  |  |               |          |  |                 |
|           | 50  |          | T .      | 1  | T  | T  | T             | Г        |  | М               |

| Cla          | im           |          | Date                                |   |               |            |          |          |              |          |  |
|--------------|--------------|----------|-------------------------------------|---|---------------|------------|----------|----------|--------------|----------|--|
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| ا ــ         | Original     |          |                                     |   |               |            |          |          |              |          |  |
| Final        | - <u>-</u> 5 |          |                                     |   |               |            |          |          |              |          |  |
| μ.           | ਨ            |          |                                     | 1   |               |            |          |          |              |          |  |
|              | l '          |          |                                     |   |               |            |          |          |              |          |  |
|              | 51           |          |                                     |   |               |            |          |          |              |          |  |
|              | 51<br>52     |          |                                     | $\vdash$  | $\overline{}$ |            |          | _        |              | _        |  |
| -            | 62           |          |                                     | ├   | _             | _          |          |          |              |          |  |
| <u> </u>     | 53           |          |                                     |   |               |            |          |          |              |          |  |
| -            | 54           |          |                                     | _   |               | _          |          |          |              |          |  |
|              | 55           |          |                                     |   |               |            |          |          | _            | _        |  |
|              | 56           |          |                                     |   |               |            |          |          |              |          |  |
|              | 57           |          |                                     |   |               |            |          |          |              |          |  |
|              | 58           |          |                                     |   |               |            |          |          |              |          |  |
|              | 59           |          | _                                   |   | $\equiv$      | -          |          |          | -            |          |  |
|              | 60           |          |                                     | $\vdash$  |               |            |          |          |              | -        |  |
|              | 00           |          | _                                   | ⊢   |               |            | _        | _        |              | _        |  |
|              | 61           | Щ        | <u> </u>                            | <u> </u>  |               | <u> </u>   | Ь        | $\vdash$ | Щ            | L        |  |
|              | 62           |          |                                     |   |               |            |          |          |              |          |  |
| 1.           | 63           |          |                                     |   |               |            |          |          |              |          |  |
|              | 64           |          |                                     |   |               |            |          |          |              |          |  |
|              | 65           | П        | Т                                   | _   | _             |            | _        |          | _            |          |  |
| 1            | 66           | $\vdash$ | $\vdash$                            | $\vdash$  |               |            |          | -        | -            | -        |  |
|              | 00           |          |                                     | <u> </u>  |               |            |          | _        | _            | <u> </u> |  |
|              | 67<br>68     |          |                                     |   |               |            |          |          |              | _        |  |
|              | 68           |          |                                     |   |               |            |          |          |              |          |  |
|              | 69           |          |                                     |   |               |            |          |          |              |          |  |
|              | 70           |          |                                     |   |               |            |          | _        |              |          |  |
|              | 71           |          |                                     |   |               | _          |          |          |              |          |  |
|              | 72           |          |                                     | -   | _             | -          |          |          | _            | _        |  |
|              | 72           |          | _                                   | $\vdash$  | _             |            | $\vdash$ |          | $\vdash$     |          |  |
|              | 73<br>74     |          | _                                   | <u> </u>  | _             | _          | _        | _        | _            | _        |  |
|              | /4           |          | _                                   | L_  |               | _          |          |          | L            |          |  |
|              | 75           |          |                                     |   |               |            |          |          |              |          |  |
| L            | 76           |          |                                     |   |               |            |          |          |              |          |  |
|              | 77           |          |                                     |   |               |            |          |          |              |          |  |
|              | 78           |          |                                     |   |               |            |          |          |              |          |  |
| <b>—</b>     | 79           |          |                                     | -   | -             |            |          | -        | $\vdash$     | _        |  |
| <b></b>      | 80           |          | -                                   | $\vdash$  | $\vdash$      | _          |          |          | -            |          |  |
| -            | 80           |          | _                                   | <u> </u>  | _             | <u></u>    |          | _        | _            | _        |  |
|              | 81           |          |                                     |   |               |            |          |          |              | Ь.       |  |
|              | 82           |          |                                     |   |               |            |          |          |              | L.,      |  |
| L            | 83           |          |                                     |   |               |            |          |          |              | L        |  |
|              | 84           |          |                                     |   |               |            |          |          |              |          |  |
|              | 85           |          | П                                   |   |               |            |          |          |              |          |  |
|              | 86           |          |                                     | П   | П             | т          |          |          | $\vdash$     | ·        |  |
| <b> </b>     | 87           | -        | $\vdash$                            | Н   | H             | Н          | Н        |          | -            |          |  |
| <del> </del> | 07           | Н        | $\vdash$                            | $\vdash$  | $\vdash$      | -          |          |          | ├            | -        |  |
| <u> </u>     | 88           | L.       | L                                   | <u> </u>  | $\square$     | <b></b>    | <b> </b> | $\vdash$ | <u> </u>     | <u> </u> |  |
| <u> </u>     | 89           | Ш        | L_                                  | <u> </u>  | L             | L_         |          |          | <u> </u>     |          |  |
| L            | 90           |          |                                     |   |               |            |          |          |              | L        |  |
|              | 91           |          |                                     |   |               |            |          |          | _            |          |  |
|              | 92           |          |                                     |   |               |            |          |          |              | _        |  |
|              | 93           | П        |                                     |   |               |            | -        | $\vdash$ | $\vdash$     |          |  |
| <b> </b>     | 94           | $\vdash$ | -                                   | <del></del>   |               | -          | $\vdash$ | H        | <del> </del> |          |  |
| $\vdash$     |              | H        | <del> </del>                        |   | -             |            |          | $\vdash$ | $\vdash$     |          |  |
| <u> </u>     | 95           |          | <b> </b>                            | <u> </u>  |               | <u> — </u> |          | <u> </u> | <u> </u>     | <u> </u> |  |
| <u> </u>     | 96           |          | <u> </u>                            | Щ   | Ш             | _          |          |          | <u> </u>     | L_       |  |
| <u> </u>     | 97           | Ш        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $ldsymbol{le}}}}}}$ | Ш             |            |          | L        | L            | L        |  |
|              | 98           |          |                                     |   |               |            |          |          |              | _        |  |
|              | 99           |          |                                     |   |               |            | L        | L        | L            | L        |  |
|              | 100          |          |                                     |   |               |            |          |          |              |          |  |

| Cla   | aim   | l .  | _  |  |              | Date   | <br>e    |          |  |          |
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|       |   |  |  |  |              |  |          |          |  |          |
| Final | Original  |  |  | l  |              |  |          |          |  |          |
| Ë     | iș  |  |  |  |              |  |          |          |  |          |
|       |   |  |  |  |              |  |          |          |  |          |
|       | 101   |  |  |  |              |  |          |          |  |          |
|       | 102   |  | ì  |  |              |  |          |          |  |          |
|       | 103   |  |  |  |              |  |          |          |  |          |
|       | 101<br>102<br>103<br>104<br>105   |  | <u></u>  |  |              |  |          |          |  |          |
|       | 105   |  | L  |  |              |  |          | _        |  |          |
|       | 106   |  |  |  |              | L  |          |          |  |          |
|       | 106<br>107<br>108<br>109  |  |  |  |              |  |          |          | L  |          |
|       | 108   | _  | <u> </u>   | _  |              |  |          |          |  |          |
|       | 109   |  |  |  |              |  |          |          |  |          |
|       | 110   |  | _  | L  |              |  |          |          |  |          |
|       | 110<br>111<br>112   |  |  | <u>L</u>   | L_           | <u> </u>   | L        |          |  | Ш        |
|       | 112   | <u> </u>   | l  | <u> </u>   | L.,          | <u> </u>   | <u> </u> | Ш        |  | Ш        |
|       | 113<br>114<br>115   | _  | <u> </u>   | <u> </u>   | <b> </b>     |  | <u> </u> | Ш        | L  | Ш        |
|       | 114   |  |  | <u> </u>   | _            |  | <u> </u> |          |  |          |
|       | 115   | $oxed{oxed}$                                     |  | <u> </u>   | <u> </u>     | _  | <u> </u> | L        |  |          |
|       | 116<br>117<br>118   | <u> </u>   | L  | <u> </u>   |              |  | Ь.       | Ш        | <u> </u>   | Щ        |
|       | 117   |  | _  | <u> </u>   | _            | <u> </u>   |          |          |  | Ш        |
|       | 118   |  |  | <u> </u>   |              | <u> </u>   |          |          |  | Ш        |
|       | 119   |  | _  | <u> </u>   | <u> </u>     |  |          |          | <u> </u>   |          |
|       | 120   |  | <u> </u>   | <u> </u>   | L            | <u></u>  |          |          | _  |          |
|       | 121   |  | <u> </u>   | <u> </u>   | <u> </u>     | ļ  |          |          | <u> </u>   |          |
|       | 122   | <u> </u>   | _  | ļ  | _            |  |          |          | _  | _        |
|       | 123   | ļ  | ļ  | <u> </u>   | $\vdash$     | <u> </u>   |          | <u> </u> | _  |          |
|       | 119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133 | _  | <u> </u>   | <u> </u>   | <u> </u>     |  |          | <u> </u> | <u> </u>   |          |
|       | 125   | <u> </u>   |  | _  | -            |  | _        | _        | <u> </u>   |          |
|       | 126   | H  | <u> </u>   | ⊢  | <u> </u>     |  |          | <b> </b> | <u> </u>   |          |
|       | 127   |  | -  | -  | -            |  |          |          | <del> </del>                                     | _        |
|       | 128   |  | -  |  | ⊢            |  |          | -        | ├  | _        |
|       | 129   | <u> </u>   | ┝  | ⊢  | ├            | _  |          |          | <u> </u>   | _        |
|       | 130   | -  | -  | -  | ┝            | -  | -        | <u> </u> | <u> </u>   |          |
|       | 122   | $\vdash$   | ⊢  | ⊢  | <del> </del> |  |          | -        | <del> </del>                                     |          |
|       | 132   | H  | ⊢  | ⊢  | ├            |  |          | -        | ┢  |          |
|       | 134   |  |  | ⊢  | ├─           |  |          | -        | $\vdash$   |          |
|       | 134   | -  | <del> </del>                                     | ├  | $\vdash$     | -  |          |          | -  | $\vdash$ |
| -     | 135<br>136  |  | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$   | ļ        | -        |  |          |
|       | 137   | <del>                                     </del> | $\vdash$   | $\vdash$   | <u> </u>     |  |          |          | $\vdash$   | $\vdash$ |
|       | 138   | -  | <del> </del>                                     | <del> </del>                                     |              | $\vdash$   |          | <u> </u> | _  | $\vdash$ |
|       | 138<br>139  | $\vdash$   | $\vdash$   | $\vdash$   |              | $\vdash$   | <b></b>  | -        | -  | $\vdash$ |
|       | 140   |  | $\vdash$   | $\vdash$   |              |  |          | -        | $\vdash$   | -        |
|       | 141   |  | $\vdash$   | $\vdash$   |              | <del>                                     </del> | <u> </u> | -        |  | Н        |
|       | 142   | _  | <del></del>                                      | $t^-$  | $\vdash$     |  |          |          | $\vdash$   | $\vdash$ |
|       | 143   |  | $\vdash$   |  |              |  |          |          | $\vdash$   | $\vdash$ |
|       | 144   |  |  | <del>                                     </del> | $\vdash$     | $\vdash$   | $\vdash$ | _        |  |          |
|       | 145   |  | <del>                                     </del> | <del>                                     </del> | $\vdash$     | $\vdash$   |          | -        | 一  | -        |
|       | 146   |  | $\vdash$   | $\vdash$   | <u> </u>     | <u> </u>   |          |          | <del>                                     </del> |          |
|       | 147   |  | <u> </u>   |  |              | -  | $\vdash$ |          | $\vdash$   | $\vdash$ |
|       | 148   | Г  |  |  |              |  |          |          | <u> </u>   | $\Box$   |
|       | 149   |  | ļ .  | <u> </u>   |              | Τ  |          |          |  | П        |
|       | 150   |  |  | Ι_   |              |  |          |          |  |          |
|       |   |  |  |  |              |  | ·        |          |  |          |